

BOROVNIKOV, A.M.; KOSTAREV, V.V.; SHUPYATSKIY, A.B.

Some results of radar observations of the evolution of cumulus  
congestus clouds and results of modification. Trudy TSOO  
no.57:24-40 '64. (MIRA 19:1)

L 16656-66 ENT(1)/FCG RB/CN  
ACC NR: AR5012910

UR/0169/65/000/003/B034/B034  
551.576

SOURCE: Ref. zh. Geofizika, Abs. 3B215

AUTHOR: Borovikov, A.M.; Kostarev, V.V.; Shupyatskiy, A.B.

TITLE: Equipment and methods used in radar observations of the evolution of heavy cumulous and cumulo-pluvial clouds

CITED SOURCE: Tr. Vses. soveshchaniya po aktiv. vozdeystviyam na grad. protsessy. Tbilisi, 1964, 210-216

TOPIC TAGS: atmospheric cloud, cloud physics, meteorologic radar, radar observation

TRANSLATION: A description is given of the equipment and methods used in radar observations for exploring the evolution of heavy cumulous and cumulo-nimbus clouds which have developed naturally and those affected by reactions, for determining the radar signals of hail clouds, and for determining criteria in evaluating reaction effects. Specifications are given for radar stations which are intended to carry out such observations. Some technical data on the radar station which was used are given. The method of vertical profiles is considered to be the most efficient for conducting radar observations. A circular observation was used for evaluating the situation in the observed region, the selection of the subject to be observed, and the determina-

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ACC NR: AR5012910

tion of the azimuth of the most intensive reflection zone. Quantitative measurements were made by means of the iso-echo method, with the help of a specially designed calibrated attenuator. The initial profile of the observed hail center was done by a fully cut-off attenuator, and the zone of the radar picture seen on the circular observation screen was, in this case, of a larger scale. Subsequently, the profiles were repeated with a gradually increasing attenuation until the fading picture vanished entirely from the screen. The picture on the screen was photographed with a movie camera. The overlapping of the photographic series made it possible to obtain a topography of the intensity of the reflected signal in the vertical profile, and based on these data, it was possible to build the vertical profile of the radar's reflecting ability Z. The value of the latter is the most reliable of the radar characteristics of a hail center, because it is not affected by the parameter of the station, nor by distance. An estimate was made of the possible errors due to the attenuation of the radiowaves propagating in the observed precipitation. A. Borovikov. ...

SUB CODE: 04

SUBM DATE; none

TS  
Card 2/2

GORELIK, A.G., kand. fiz.-matem. nauk; KOSTAREV, V.V., kand. tekhn. nauk;  
CHERNIKOV, A.A., kand. fiz.-matem. nauk

Coordinate and Doppler method of wind observations and some  
results of studying the heterogeneities of the wind field in  
the atmosphere. Meteor. i gidrol. no.10:12-20 0 '65.

(MIRA 18:9)

1. Tsentral'naya aerologicheskaya observatoriya.

E 14467-66 FSS-2/EWT(1)/FCC GW/WR

ACC NR: AR5012916

UR/0169/65/000/003/B093/B094  
551.509.6

SOURCE: Ref. zh. Geofizika, Abs. 3B564

AUTHOR: Borovikov, A.M.; Kostarev, V.V.; Shupyatskiy, A.B.

TITLE: Results of radar observations of the evolution of heavy cumulous and cumulo-nimbus clouds under the effect of artificial influence

CITED SOURCE: Tr. Vses. soveshchaniya po aktiv. vozdeystviyam na grad. Protessay. Tbilisi, 1964, 217-232

TOPIC TAGS: atmospheric cloud, cloud physics, meteorologic radar

TRANSLATION: On the basis of analyses of radar observations conducted in 1961-1962 by the Samsarskaya expedition on the evolution of cumulo-nimbus clouds, some preliminary radar signs were established regarding the hail-carrying capacity of clouds. In order to discover these signs, certain radar characteristics applicable to clouds were used, namely: the range of the maximal radar reflection and its position in the cloud; the stratum of an increased reflection zone and its position in the cloud; the altitudes of these zones and their characteristic temperatures. One should expect a precipitation of hail when: 1) the range of radar reflection is  $> 10^9 \text{sm}^3$ ; 2) the zone of increased reflection is in a minimal 3-3.5 km strata and is either sym-

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L 14467-56

ACC NR: AR5012916

metrically distributed or located in the upper part of the cloud; 3) the entire reflection zone, or most of it, is located in an area of negative temperatures; 4) the altitude of the upper reflection zone is more than 9 km, and its thickness 6 km. The fact is stressed that deductions regarding the hail-carrying capacity of clouds may be made only in the presence of all the above-indicated signs, and that the presence of only one or some of these symptoms does not give a sufficient basis for such deductions. Radar tracking of the effects of artificial influences on the hail-carrying clouds made it possible to establish a series of radar criteria for evaluating the effectiveness of the influence. Such criteria are: the disappearance of, or decrease in the cloud area in a horizontal location profile; variations in the vertical distribution of radar reflections typical for hail-carrying clouds; signs, indicated by radar, of a phase reorganization in the clouds; variations in the character of the contours of the radar pictures of the reflection zone. The criteria obtained were applied by the Semsarskaya expedition for evaluating data gathered from several cases of cumulo-pluvial clouds affected by artificial influence. Practical examples are given. A. Borovikov.

SUB CODE: 04

Card 2/2

L 10451-66 EWT(1)/EWA(h)

ACC NR: AR5027555

SOURCE CODE: UR/0274/65/000/008/A011/A012

SOURCE: Ref. zh. Radiotekhnika i elektrosvyaz', Abs. 8A89

AUTHOR: Kostarev, V. Ye.

TITLE: Differential-bridge filter with piezo-electric resonators

CITED SOURCE: Tr. uchebn. in-tov svyazi. M-vo svyazi SSSR, vyp. 21, 1964, 99-108

TOPIC TAGS: electric filter, piezo resonator filter, piezo resonator

TRANSLATION: A filter with piezo resonators and parallel expansive inductances (a differential-bridge equivalent of the bridge circuit) is considered. Design formulas are developed for various passbands (whose relative width varies between 0.01 and 5% of the filter central frequency). Based on the suggested method of design, a group of quartz filters was developed; these filters are suitable for transistorized equipment, have small size and high temperature stability. Experimental data and filter characteristics are presented. The validity of design has been corroborated by the experiments. Bib 2, figs 15.

SUB CODE: 09

Card 1/1 p/c

UDC: 621.372.542.25

L 10742-66 ENT(1)/FCC  
ACC NR: AF5023679

UR/0050/65/000/010/0012/0020  
UDK 551.(501.75+557)

AUTHOR: Gorelik, A.G.<sup>44.55</sup> (Candidate of physico-mathematical sciences);  
Kostarev, V.V.<sup>44.55</sup> (Candidate of technical sciences)  
Chernikov, A.A.<sup>44.55</sup> (Candidate of physico-mathematical sciences).

TITLE: Combined coordinate-doppler tracking method of wind observation, with some data on the inhomogeneities of wind fields in the atmosphere

SOURCE: Meteorologiya i gidrologiya, no. 10, 1965, 12-20

TOPIC TAGS: wind, wind profile, . . wind velocity, wind direction  
44.55

ABSTRACT: The authors describe the theory, difficulties and results of wind observations based upon a combined (doppler-coordinate) doppler tracking method previously described by them in detail elsewhere (avtorakoye svidetel'stvo NR 157,465 of 10Oct65). The doppler method, based upon frequency shift of the signal reflected from an airborne target has the advantages of high precision and continuous registration. A combination of doppler and coordinate tracking methods appears therefore promising. Experience showed, however, that pendulous oscillations of suspended reflectors created overwhelming velocity signal noise. Therefore, solid symmetric freely dropped reflector targets were adopted. A theoretical study points to the need of high angular resolution and a small range of altitude elevation angles. This results in long range tra-

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L 10742-66

ACC NR: AP5023679\*

cking requirement with related requirements of effective reflectors and optimized radar frequencies and pulse repetition rates. Results of 12 reflector drops in the Fall and Winter of 1963 are given, with relative wind velocity pulsations plotted for various altitudes and wind velocities. The RMS wind pulsations reach a maximum of 4% at 400 meters and remain close to 2% between the altitudes of 3 to 12 km. The relative pulsations are practically independent of wind velocity at all altitudes studied. The reflector sinking velocities were fairly constant and reached 4.15 - 4.35 m/s at the ground. The time delay constant of target acquisition of the wind velocity was between .5 and 1.0 seconds, limiting the registered granularity to 5 - 10 meters. The good resolution of the method based on combined doppler and coordinate tracking opens new possibilities for the study of wind structure. Preliminary results point to the presence of a complex mesostructure of the wind field. Orig. art. has: 5 figures, 2 tables and 8 formulas.

ASSOCIATION: Tsentral'naya aerologicheskaya observatoriya (Central aerological observatory)

SUBMITTED: 3Jun65

ENCL.: 00

SUB CODE: 08

NO REF SOV: 003

OTHER: 000

Card 2/2

(18)

**DIFFERENTIAL MODELS**

0012/1700

22(7)

Libov, Divorčák

Ukr. Universitet  
Materialy k Vsesoyuznogo soveshchaniya po spektroskopii, 1956.  
t. II: Atomnaya spektroskopiya (Materialy of the 10th All-Union  
Conference on Spectroscopy, 1956. Vol. 2: Atomic Spectroscopy).  
Moscow: Izdat. vuzovskogo uchebn. i nauch. zap. Seriya: fiz.  
mat. i inzh. nauki, 1958. 568 p. (Series: Its:  
fiz. i inzh. nauki, 1958. 568 p.) 1,000 copies printed.

Yuzhicheskoy shornik, vvp-(57) 3.000 000  
Additional Sponsoring Agency: Akademiya nauk SSSR.  
Komsomol'skiy do  
mestromopli.

**Spectrometrol.**

**Mitioral Board:** G.S. Landsberg, Academician, (Resp. Ed.);  
B.S. Zepornikov, Doctor of Physical and Mathematical Sciences;  
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(Assesors), Doctor of Physical and Mathematical Sciences;  
(Assesors), Doctor of Physical and Mathematical Sciences;  
A.Ye. Kabanov, Doctor of Physical and Mathematical Sciences;

Ed.: S.L. Gaser; Tech. Ed.: T.V. Saranyuk.  
 Glushchenko, Doctor of Eng. Sci.  
 This book is intended for scientists and researchers in  
 the field of spectroscopy, as well as for technical personnel  
 in various industries.

**Abstract:** This volume contains 177 scientific and technical studies of atomic spectroscopy submitted at the 10th All-Union Conference on Spectroscopy, 1966. The studies were carried out by members of Soviet and technical institutes and include extensive bibliographies of Soviet and other sources and new data. The papers cover many phases of spectroscopy: specific methods for controlling atmospheric radiation, physicochemical effects discharge, uranium production, physics and technology of metal vapors, optics and spectroscopy, abnormal dispersion in metal vapors, spectroscopy and the combustion theory; spectrum analysis of ores and minerals, photographic method for quantitative determination of the analysis of metals and alloys, spark spectrographic analysis, hydrogen content of lines, x-ray spectrographic analysis, calibration atlases of spectra of lines, means of spectroscopic identification statistical estimation of variation in the parameters of calibration curves, determination of traces of metallic, spectral analysis in surveying, thermochemistry in metallurgy, and principles and methods of spectrochemical analysis.

Case 2/31

(Cont.)

0021/1700

[illegible]

U.S. GOVERNMENT PRINTING OFFICE: 1967

7-7-59

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Case 3:11-cv-00031 Document 1-1 Filed 03/11/11

KARABASH, A.G.; PRYZULAYEV, Sh.I.; SLYUSAREVA, R.L.; SOTNIKOVA, N.P.;  
SMIRNOVA-AVERINA, N.I.; SAMSONOVA, Z.N.; KRAUZ, L.S.; MOROZOVA, G.G.;  
ROMANOVICH, L.S.; SMIRNENKINA, I.I.; LIPATOVA, V.M.; SAZANOVA, S.K.;  
PUGACHEVA, L.I.; USACHEVA, V.P.; VORONOVA, Ye.P.; GORBACHEV, P.D.;  
KOSTAREVA, F.A.; KOSTERIEVA, N.T.; YELOVATSKAYA, A.P.; KUZNETSOVA, N.N.

Spectrochemical analysis of pure metals for impurities. Fiz.  
sbor. no.4:556-562 '58. (MIRA 12:5)  
(Spectrochemistry)

*Kostareva, F.A.*

AUTHORS: Peyzulayev, Sh.I., Karabash, A.G., Krauz, L.S., 32-24-6-19/44  
Kostareva, F.A., Smirnova-Averina, N.I.,  
Babina, F.L., Kondrat'yeva, L.I., Voronova, Ye.F.,  
Meshkova, V.M.

TITLE: Spectral Methods for the Determination of Admixture Traces  
(Spektral'nyye metody opredeleniya sledov primesey),  
I. Chemical Spectral Methods of Analyzing Strontium, Chromium,  
and Silicon (I. Khimiko-spektral'nyye metody analiza strontsiya,  
khroma i kremniya), II. The Quantitative Spectral Analysis of  
Water and Microsamples on the Basis of Strontium Nitrate  
(II. Kolichestvennyy spektral'nyy analiz vody i mikroobraztsov  
na osnove nitrata strontsiya)

PERIODICAL: Zavodskaya Laboratoriya, 1958, Vol 24, Nr 6, pp 723-731 (USSR)

ABSTRACT: In the course of the present work analysis methods are investi-  
gated in which sensitivity is increased by previous enrichment and  
which make it possible to determine a larger number of admixtures.  
From the analysis of strontium, which is described in detail, it  
follows that determination is based upon a formation of strontium  
sulfate and that 18 elements can be determined by means of one

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Spectral Methods for the Determination of Admixture Traces. 32-24-6-19/44  
I. Chemical Spectral Methods of Analyzing Strontium,  
Chromium, and Silicon. II. The Quantitative Spectral Analysis  
of Water and Microsamples on the Basis of Strontium Nitrate

spectrogram, in which case sodium is determined separately. Analysis sensitivity is shown by a table, and the preparation of samples and the spectral analysis itself are described. From the data concerning the determination of chromium it follows e.g., that chromium is volatilized in form of  $\text{CrO}_2\text{Cl}_2$ , that practically complete (99.7%) volatilization is attained at  $200-220^\circ$ , and that at the same time only arsenic, boron, germanium, tin, and mercury are removed. In the case of a low content of admixtures analysis was carried out already after the first concentration, whereas in the case of a higher percentage ( $10^{-1} - 10^{-2}\%$ ) also the second concentrate was examined. The analysis is described. The analysis of silicon is based upon its volatilization in form of fluorides; also in this case the concentrate of the admixtures is produced on the basis of a spectrally pure strontium sulfate, and also in this case 18 elements can be determined simultaneously by means of one spectrogram, sodium being determined separately. The process of analysis is described, and it is said, among other things, that the method was worked out in 1955 for the

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Spectral Methods for the Determination of Admixture Traces.

32-24-6-19/44

I. Chemical Spectral Methods of Analysing Strontium, Chromium, and Silicon. II. The Quantitative Spectral Analysis of Water and Microsamples on the Basis of Strontium Nitrate

determination of elementary silicon.

II. The method is based upon application of the sample solution on to spectrally pure strontium nitrate powder, drying, and spectral analysis; it is possible, on the one hand, to examine the organic impurities existing in water, and, on the other, to analyse the composition of various microsamples. In the analysis of water it is possible to determine 12 elements by means of one spectrogram, including the ordinary admixtures found in water as well as corrosion products. The process of analysis is described as well as the manner in which etalons and the spectrally pure strontium nitrate are prepared. By the method described it is possible to determine 26 elements by the analysis of microsamples. Analysis is described, and it is said, among other things, that the relative sensitivity in determining components and admixtures depends on the weighed in portion of the microsample and the strontium nitrate; corresponding data are given by a table. By comparative determinations carried out on a strontium nitrate-

Card 3/4

VIKHROV, V.Ye.; PROTASEVICH, R.T.; Primala uchastiye KOSTAREVA, L.A.,  
laborantka

Wood structure of the dwarf elm *Ulmus pinnato-ramosa* Dieck and the  
green ash *Fraxinus lanceolata* Borkh. growing in Solonetz and  
Chernozemlike soils. Nauch. dokl. vys. shkoly; biol. nauki  
no.1:120-125 '64. (MIRA 17:4)

1. Rekomendovana kafedroy drevesinovedeniya Belorusskogo  
tekhnologicheskogo instituta.

VIKHROV, V.Ye.; KOSTAREVA, L.V.

Anatomical structure of the wood of roots in some conifer species.  
Bot. zhur. 45 no.9:1259-1270 S '60. (MIRA 13:9)

1. Institut lessa AN SSSR, Moskva.  
(Roots (Botany)--Anatomy) (Coniferae)



BERDINSKIY, I.S.; KOSTAREVA, N.A.

Substituted hydrazides of hydroxycarboxylic acids. Part 22:  
Halochromism of arylhydrazides of diarylglycolic acids.  
Zhur. ob. khim. 35 no.5:876-879 My '65. (MIRA 18:6)

1. Permskiy gosudarstvennyy universitet imeni Gor'kogo.

KOSTAREVA, YE. A.

"On Laboratory Methods of Analysis of Diptheria," a report given at the first republic scientific-practical conference of physician-bacteriologists of the Scientific Research Institute of Epidemiology, Microbiology, and Hygien of the Ministry of Health Azerbaydzhan SSSR held in Baku, 25 Apr 56.

SUM: 1360 p. 239

KOSTAREVA, Zinaida Grigor'yevna; STENDER, P.V., nauchnyy red.;  
VOL'FE, L., red.

[The elements of vector algebra. Analytic geometry in space;  
written lectures] Elementy vektornoj algebry. Analiticheskaya  
geometriya v prostranstve; pis'mennyye lektsii. Leningrad,  
Severo-Zapadnyi zaokhnyy politekhn. in-t, 1962. 150 p.  
(MIRA 15:7)

(Vector analysis) (Geometry, Analytic)

CZECHOSLOVAKIA

SPURNY, O.; SURYNEK, J.; KOSTARZ, T.; Chair of Pathological Physiology, Veterinary Faculty, College of Agriculture (Katedra Patologicke Fysiologie Veterinarni Fak. VSZ), Brno.

"The Development of the Level of Ketones, Fatty Acids, and Ammoniacal Nitrogen in the Blood of Calves Fed Acidophilic and Non-skim Milk."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 5, Sep 66, p 391

**Abstract:** Two groups of 6 calves were investigated between the ages of 4 days and 6 months. One group received non-skim milk with 4% of fat, and later hay, grain meal, and beet; the second milk fermented by acidophilic microbial agents, later skim milk, siloed corn, hay, and grain meal. Only the levels of EFA and NEFA between the ages of 4 and 8 weeks were different; this resulted mainly from the supply of milk fat to the 1st group. The levels of EFA decrease to that of adult animals already in the 10th week. There is a temporary increase in the levels of ketones and EFA in the 15-16th and 16-18th weeks, respectively. 3 Western, 2 Czech references. Submitted at 3 Days of Physiology of Domestic Animals at Liblice, 10 Dec 65.

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- 94 -

SEME NOVSKIY, M.L. (Moskva, Luchnikov per., d.4, kv.10); KOSTASH, G.A.  
APPROVED FOR RELEASE: 06/14/2000 CIA-RDP86-00513R000825210008-5

Significance of selective angiography of the lungs in the evaluation of operable possibilities in primary bronchial cancer. Vest. rent. 1 rad. 35 no. 4:9-13 J1-Ag '60. (MIRA 14:2)

1. Iz 2-y kafedry klinicheskoy khirurgii (zav. - prof. B.K. Osipov) i 2-y kafedry rentgenologii i meditsinskoy radiologii (zav. - prof. Yu.N. Sokolov) Tsentral'nogo instituta usovershenstvovaniya vrachey (direktor M.D. Kovrigina) na baze gorodskoy klinicheskoy bol'nitsy No.50 (glavnyy vrach N.P. Brusova).  
(BRONCHI—CANCER) (ANGIOGRAPHY)

KOSTASH, Mariya Stepanovna, brigadir betonschchikov, Geroy Sotsialisticheskogo Truda; YARTSEV, N., red.; USTINOVA, S., tekhn. red.

[Always on the move] Vsegda v puti. Moskva, Mosk. rabochi, 1963. 49 p. (MIRA 17:1)

KOSTASHEVSKIY, M.

Automatic compensation for wear of brake linings. Avt.transp. 34  
no.4:39 Ap '56. (MLRA 9:8)  
(United States--Automobiles--Brakes)

1ST AND 2ND CODES										PROCESSES AND PROPERTIES INDEX										100 AND 4TH CODES									
<p>CA KOSTAVA, G. A.</p> <p>Pecularity of the genesis of several podzolic soils of the subtropical zone of western Georgia as a basis for their amelioration through self-induced liming. G. A. Kostava. <i>Pedology</i> (U.S.S.R.) 1947, 1/2-7 (in Russian). Analytical data (standard total soil analyses and exchangeable bases) on 3 podzolic soils of river terraces, underlain with calcareous parent material, show that the podzolization process has affected the surface of the soil only slightly. The return of bases to the surface impedes the podzolization process in the subtropics of the Caucasus and at the same time keeps the soil well limed.</p> <p>J. S. Joffe</p>																													
<p>ASB-SLA METALLURGICAL LITERATURE CLASSIFICATION</p>																													
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KOSTAVA, G.A.

My

The processes of soil formation in red earths according to chemical composition of their fractions. G. A. Kostava (Inst. Agrochem. Melioration and Soil Sci. Acad. Sci. Georgian S.S.R., Tbilisi), *Sobremennyye Akad. Nauk, Gruzia, S.S.R.* 13, 371-4 (1952).--Colloids of a typical red-earth profile formed from augite porphyrite were fractionated by sedimentation in 0.005N HNO<sub>3</sub>, 0.1N LiCO<sub>3</sub>, or water. The percentages of the surface soil recovered as colloids < 0.2  $\mu$  in diam. from the different media were 0.97, 4.87, and 1.70, and silica sesquioxide ratios of these fractions were 4.08, 1.58, and 1.05, resp. Thus, the dispersing medium may greatly affect the nature of the colloids recovered. No colloids < 0.2  $\mu$  in diam. were recovered from the deeper horizons of soils suspended in water or the acid soln., and, in the alk. soln., the percentage of colloids decreased with depth of 1.24 at 400 cm. Chem. analyses showed that the fractions < 0.2  $\mu$  contained more Ca and Mg, less Si, Ti, and Al, and about the same amts. of Fe and P per unit wt. as the fractions 0.2-5  $\mu$ .  
 .. .. Ronald G. Menzel



KOSTAVA, G. A.

Soil conditions in old orange groves. G. A. Kostava  
Pochvosledenie 1936, No. 5, 57-60

elements: SiO<sub>2</sub>, Al<sub>2</sub>O<sub>3</sub>, Fe<sub>2</sub>O<sub>3</sub>, CaO, MgO, K<sub>2</sub>O, Na<sub>2</sub>O, P<sub>2</sub>O<sub>5</sub>, H<sub>2</sub>O, etc.

KOSTAVA, G. A.

USSR/Soil Science. Soil Genesis and Geography

J-2

Abstr Jour : Ref Zhur - Biol., No 20, 1958, No 91360

Author : Kostava G.A.

Inst : All-Union Scientific Research Institute for Tea and Sub-tropical Crops

Title : Conditions and Processes of Soil Formation in the Drained Parts of the Kolkhid Lowlands

Orig Pub : Byul. Vses. n.-i. in-ta chaya i subtrop. kul'tur, 1957, No 1, 198-208

Abstract : Problems of the soil water ratio, the conditions of soil formation and the hydrological role of forests in the Kolkhid lowlands are discussed.

Card : 1/1

KOSTAVA, G. A.

APPROVED FOR RELEASE: 06/14/2000

CIA-RDP86-00513R000825210008-5

Transpiration ability of trees in Colchis lowlands. Soob. AN Gruz. SSR 18 no.3:341-347 Mr '57. (MIRA 10:?)

1. Akademiya nauk Gruzinskoy SSR, Institut pochvovedeniya, agro-khimii i melioratsii, Tbilisi. Predstavlen akademikom L.I.Dsaparidze. (Plants--Transpiration) (Colchis--Trees)

KOSTAVA, G.A., kand., sel'skokhozyaystvennykh nauk

Conditions and processes of soil formation in the drained  
section of Colchis. Biul. VNIICHISK no.1:199-208 '57.

(MIRA 15:5)

(Colchis--Soil formation)

L 3544-66 EWT(d)/EWP(v)/EWP(k)/EWP(h)/EWP(l)/ETC(m)  
ACCESSION NR: AP5024415

UR/0286/65/000/015/0096/0096

AUTHOR: Kostava, Yu. N.

TITLE: A method for measuring the temperature of flame. Class 42, No. 173457

SOURCE: Byulleten' izobreteniy i tovarnykh znakov, no. 15, 1965, 96

TOPIC TAGS: <sup>gm</sup>temperature measurement, combustion temperature, smelting furnace, flame temperature, color temperature

ABSTRACT: This Author Certificate presents a method for measuring the temperature of flame, for example, in smelter furnaces. The method is based on determining the temperature by measuring the color temperature and introducing a correction factor for the change of the wavelength. To increase the accuracy of the temperature measurement in an impure gaseous medium (with dust or soot) between the flame and the measuring device (pyrometer), the spectrum is studied over a period of time. The wavelengths used are the ones in the vicinity of which no sharp change occurs in the absorbing ability. The correctness of the choice of proper spectral regions is checked by establishing a correlation between the actual temperature values and various color temperatures.

Card 1/2

L 3544-66

ACCESSION NR: AP5021115

ASSOCIATION: none

SUBMITTED: 03May63

ENCL: 00

SUB CODE: IE

NO REF SOV: 000

OTHER: 000

*mlr*  
Card 2/2

KOSTE, L.

4  
IRAL

Determination of uranium in iron. L. Koste, J.  
Selav (Ljubljana) Repic. 2, 7-8/1963 (in English).  
Ch. C.A. 49, 10121a. -- Very small concns. of U in Fe and Fe-

base all ... are left ...  
and Mn ... are eliminated in the ...  
2 hr. electrolysis ...  
the ...  
with ...

FILE

KOSTECKA, Aleksandra

Characteristics of the Zechstein conglomerates of the  
Galezice-Bolechowice Syncline (Swietokrzyskie Mountains).  
Kwartalnik geol 6 no.3:416-435 '62.

1. Katedra Geologii, Akademia Gorniczo-Hutnicza, Krakow.

KOSTECKA, Aleksandra

Laminated limestone of Zechstein in the Galesice Syncline  
(Gory Swietokrzyskie). Roczn geol Krakow 32 no.2:161-182 '62



KOSTECKA, Barbara

Calculation of production costs of six vegetable crops and their profitableness on five different model farms during the years 1957-1961. Biul warzyw 7:81-112 '63.

1. Economic Laboratory, Department of Vegetables, Institute of Cultivation, Fertilization, and Soil Science, Pulawy.

CHOLEWINSKA, Bronislawa; KOSTECKA, Barbara

Analysis of the production costs of greenhouse tomatoes on  
a state vegetable farm during the years 1958/59-1960/61.

Biul warzyw 7:131-151 '63.

1. Economic Laboratory, Department of Vegetables, Institute  
of Cultivation, Fertilization, and Soil Science, Pulawy.

DABROWSKI, Tadeusz; KOSTECKA, Barbara

Production costs and production profitableness of greenhouse tomatoes in Poland and in Bulgaria. *Biul warzyw* 7:153-172 '63.

1. Main School of Rural Economy, Warsaw, and Economic Laboratory, Department of Vegetables, Institute of Cultivation, Fertilization, and Soil Science, Pulawy.

KOSTECKA Fr. Prevention of dental caries 10th Congress of the Arpa International  
11-15/6/1947. Ceskoslovenska Stomatologie, Prague (Czechoslovakia) 1947, 47/5-6(216)  
So: Medical Microbiology and Hygiene, Section IV, Vol. Im #1-6

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POLAND/Chemical Technology. Chemical Products and Their  
Application. Treatment of Solid Mineral Fuels.

H

Abs Jour: Ref Zhur-Khin., No 13, 1958, 44543.

Author : Kowalski Jerzy, Kostecka Lidia.

Inst :

Title : Study of the Process of Purification of Mineral Tar  
With Solvents.

Orig Pub: Koks, smola, gaz, 1957, 2, No 5, 191-195.

Abstract: Laboratory experiments on purification of mineral  
tar (obtained from brown coal) by extraction of  
contaminating admixtures from the fused and from  
dissolved tar. On mixing the fused tar with para-  
ffin hydrocarbons there were obtained, successively,  
black, brown, and white products; on mixing the  
same hydrocarbons with a benzene solution of the

Card : 1/2

POLAND/Chemical Technology. Chemical Products and Their  
Application. Treatment of Solid Mineral Fuels.

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Abs Jour: Ref Zhur-Khim., No 13, 1958, 44543.

tar only two products were obtained (a brown and a white) with lower yields. A benzene-paraffin solution of the tar was extracted with organic,  $O_2$ -containing, compounds (acetone, furfurole, methanol). Results are described of an effective purification with methanol which yielded a yellow-colored product. It was found that some fractions of the tar exhibit drying properties.

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Manual electrostatic spray. Chemik 15 no.7/8:256-259 JI-Ag  
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Ethereal oil content in *Heracleum Sosnowskyi* Manden.,  
cultivated in Poland. Acta agrobot 14 no.1:25-32 '63.

1. Department of Pharmaceutical Botany with Medical Plant  
Garden, School of Medicine, Wroclaw.



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1. "Open Recent Investigations of Vegetable Products,"  
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 (Leczenie Lekami) of the Medical Academy (Akademia  
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2. "Investigation of Mammals in Some Groups of Pharmaco-  
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*Frigeron Canadensis* L.; a medicinal and essential oils producing plant. *Farmacja Pol* 18 no.6:134-136 Mr '62.

1. Katedra Botaniki Farmaceutycznej z Ogrodem Roslin Leczniczych, Akademia Medyczna, Wrocław.

KOSTECKA-MADALSKA, O.

Heraclum Sosnowskyi Manden. in the Garden of Medicinal Plants  
of the School of Medicine in Wroclaw. Wiadom botan 6 no.2:  
175-177 '62.

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KOSTECKA-MADALSKA, Olga; POLANOWSKI, Antoni

Ethereal oil from domestic *Erigeron canadensis* L. Acta Pol.  
pharm. 21 no.3:275-279 '64

1. Z Zakladu Botaniki Farmaceutycznej Akademii Medycznej we  
Wroclawiu (Kierownik: prof. dr. J. Madalski).

KOSTECKI, A.

"Methods of Manpower Management in Truck Transportation." p. 133 (NOTORYZACJA, Vol. 8, No. 5, May 1953) Warszawa

SO: Monthly List of East European Accessions, Library of Congress, Vol. 2, No. 10, October 1953. Unclassified.

S/169/63/000/001/060/062  
D263/D307

**AUTHORS:** Plewa, St., Subik, J. and Kostecki, A.

**TITLE:** Modeling resistance curves by means of an integrator

**PERIODICAL:** Referativnyy zhurnal, Geofizika, no. 1, 1963, 35,  
abstract 1D195 (Nafta (Polska), 1962, 18, no. 8,  
'Biul. Inst. Naftow', v. 12, no. 4, 7 (Pol.))

**TEXT:** Many physical effects may be modeled with the aid of electrointegrators. Resistance curves for a three-layer section with constant parameters were modeled, to see whether the electro-integrator could be applied in geophysical prospecting, and were compared with the curve obtained from measurements in a bore hole. An example of such a comparison is given. It is considered that electrointegrators may be used for both the construction of grids for electrical logging and in the solution of problems encountered in geophysical prospecting.  
[Abstracter's note: Complete translation]

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Attempts at calculating theoretical curves for the method of controlled  
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DZWINEŁ, J. mgr; KOSTECKI, A., mgr inz.

Application of the method of the smallest-squares to the elaboration  
of magnetotelluric observations. Nafta:Biul inst naft 13 no.6/7:  
11-12 '63.



KOSTECKI, B.I., prof. dr n.t. Edigarian, F.S., inz.

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PROCESSES AND PROPERTIES INDEX

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International solution of the sugar-beet variety question. J. SOUTER AND R. KOE-  
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J. P. LEBT

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The international solution of cognate problems of sugar beets. J. SOUČEK AND B. KUBICEK. *Časopis Československé cukrovnické společnosti*, 40, 480-91(1931).—Seeds from a Polish source gave better results when grown in Poland than when grown in Czechoslovakia; Czech seeds gave better results when grown in Czechoslovakia than in Poland. Hence native seeds do better in a native environment than in a foreign one.

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POLAND/Cultivated Plants. General Problems.

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Abs Jour : Ref Zhur-Biol., No 15, 1956, 68067

Author : Kostocki, Edward

Inst : -

Title : Discussion of a Method of Growing Self-Pollinating Plants.

Orig Pub : Postepy nauk roln., 1957, 4, No 4, 143-146

Abstract No abstract.

Card : 1/1

CARD: 1/2

KOSTECKI, E.

POLAND/General Biology. Genetics. Plant Genetics. B-5

Abs Jour : Ref Zhur-Biol., No 16, 1956, 71642

Author : Kostecki, Edward

Inst : -

Title : Polyploids and Diploids in the Light of Numbers.

Orig Pub : Gaz. cukrown., 1957, 59, No 6, 166

Abstract : In the journal, Der Zuechter, No 2, 1957, an article was published by K. Zel'dnaya [Zeldnaya] on a comparison of diploids and polyploids occurring in beets in Hungary. In it, data are presented with respect to variety tests of different forms of beets performed in Zoprongorpaks in 1955, in which polyploid forms showed explicit predominance over diploid

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Ja-F '63.

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Organization of plant breeding and seed production. Postępy  
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1. Z Katedry Botaniki Farmaceutycznej Akademii Medycznej we Wroclawiu (Kierownik: doc. dr. Z. Chabudzinski).

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Kostecki J. Quartzites from the Świętokrzyskie (Holy Cross) Mountains as Valuable Raw Material for the Refractory Materials Industry.

„Kwarcyty świętokrzyskie cennym surowcem dla przemysłu materiałów ogniotrwałych”. Materiały Budowlane. No. 1, 1951, pp. 8—12.  
The quartzites from the Świętokrzyskie Mountains are of great interest as a basis for the refractory materials industry in Poland. Geological features of the Świętokrzyskie quartzite deposits. Approximate extent of deposits of quartzite in the centres already exploited. Schedule of deposits based on the criterion of value of quartzites for the production of silica refractory materials (silica,  $SiO_2$ , content). Pre-war exploration of quartzites. Results of research and experience gained since the war in Poland and in the Soviet Union. Difficulties encountered in the use of bricks made from Świętokrzyskie quartzites. Technological properties. Advantageous features of exploitation from the economic point of view.

KOSTECKI, J.

"Proper documentation of geological deposits is a real guarantee of supplying mineral building materials." p. 203. "The pipes for water-supply installations. Tr. from the Russian." p. 205 (MATERIALY BUDOWLANE, Vol. 8, no. 7, July 1953, Warszawa, Poland)

SO: Monthly List of East European Accessions, L. C., Vol. 3, No. 5, May 1954, Uncl.

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(MATERIALY BUDOWLANE, Vol. 8, No. 10, Oct. 1953, Warszawa, Poland)

"For proper organization of the exploitation of sand in industry in Poland;  
some remarks concerning an article published in Materiały Budowlane, No. 5"  
p. 282.

SO: MONTHLY LIST OF EAST EUROPEAN ACCESSIONS, L.C., Vol. 3, No. 4, April 1954

KOSTECKI, J.

"Raw Materials for the Fireproof Materials Industry." p.41  
(PRZEGLAD GEOLOGICZNY No. 1/2, Jan./Feb. 1954 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

KOSTECKI, J.

"Problem of Raw Materials for Ceramic Industries." p.57  
(PRZEGLAD GEOLOGICZNY No. 1/2, Jan./Feb. 1954 Warszawa, Poland)

SO: Monthly List of East European Accessions, LC, Vol. 3, no. 5, May 1954/Uncl.

KOSTECKI, J.

"There Are Real Possibilities of Increasing the Production and Supplies of Building Materials", P. 301, (MATERIALY BUDOWLANE, Vol. 9, No. 11, November 1954, Warsaw, Poland)

SC: Monthly List of East European Accessions (EMAL), LC, Vol. 4, No. 1, March 1955, Uncl.

KOSTECKI, J.

"More on the Research Session of the Polish Academy of Sciences dealing with building materials." p. 328. (MATERIALY BUDOWLANE Vol. 9, No. 12, Dec. 1954. Warszawa, Poland)

SO: Monthly List of East European Accessions. (EEAL). LC. Vol. 4. No. 4. April 1955. Uncl.



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"Protection of a Monument of Technical Culture," P. 138. (PRZEGLAD TECHNICZNY,  
Vol.75, No. 4, Apr. 1954, Warszawa, Poland)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4,  
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Prime cost of prospecting, p- 77. (PRZEGLAD GEOLOGICZNY, Warszawa, No. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (EEAL), LC, Vol. 4, No. 1, Jan. 1955,  
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Simplifying methods used in determining the usefulness of clay for  
brick production.

p. 437

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Knowledge of clay deposits as a condition of good brick production, p. 55.  
(MATERIALY BUDOWLANE, Warszawa, Vol. 10, no. 2, Feb. 1955.)

SO: Monthly List of East European Accessions, (FEAL), LC, Vol. 11, No. 6, Jun. 1955,  
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POLAND/Chemical Technology. Chemical Products and Their  
Application. Ceramics. Glass. Binding Materials.  
Concrete.

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Abs Jour: Ref Zhur-Khim., No 2, 1959, 5593.

Author : Kostecki, Jan.

Inst :

Title : Concerning the Expediency of Utilization of Spongilitic  
Chalcedony as Concrete Agglomerate.

Orig Pub: Mater. budowl., 1956, 13, No 4, 110-113.

Abstract: Data concerning the chemico-mineralogical composi-  
tion of a variety of quartzite from the Tomaszow  
Mazowiecki Region (Poland) are presented. The inves-  
tigation of specimens carried out showed that this  
quartzite is quite suitable for being utilized as ag-  
glomerate for the preparation of concrete. - B. Lewnan.

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1. Instytut Geologiczny, Warszawa, ul. Rakowiecka 4.

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Problems connected with extracting striped flint in the neolite.  
Przegl geol 11 no.7:367-370 J1 '61.

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12. "Opisanie geologiczne i paleogeograficzne" (Description and Paleogeography) of the University of Warsaw (Jan KOSTECKI) pp 107-108.
13. "Prace geologiczne i paleogeograficzne" (Geological and Paleogeographical Works) of the University of Warsaw (Jan KOSTECKI) pp 107-108. (English summary).
14. "Prace geologiczne i paleogeograficzne" (Geological and Paleogeographical Works) of the University of Warsaw (Jan KOSTECKI) pp 107-108.
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Activities of the geological institute in the fields of methodology and scientific and technological information service. Przegl geol 10 no.3:156-159 Mr '62.

1. Instytut Geologiczny, Warszawa.



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Post-Barburka recollections. Przegl geol 10 no.1:61-62  
Ja '62.

1. Naczelny redaktor miesiecznika "Przegląd Geologiczny".

KOSTECKI, Jan

Some Polish special publications at the 6th INQUA Congress. Przegl geolog  
10 no.2F:88-89 '62

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"Hydroprojekt's" ten years of activities. Przegl geolog 10 no.2F:127 '62.

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An economic partisan conference in the Central Institute of Geology.  
Przegl geol 10 no. 4/5:248-250. Ap-May '62.

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Raw materials of the building materials industry in the works of the geographers of the Polish Academy of Sciences. Przegl geol 10 no. 4/5:250-252. Ap-May '62.

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Heads of Polish and foreign scientific mining institutes have been visiting the Geological Institute. Przegl geol 10 no. 4/5:262. Ap-May '62.

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"Demarcating engineering; papers of the 12th Conference on Mining and Metallurgy, Freiberg, June 8-11, 1960";  
"Labor safety in mines; papers of the 11th Conference on Mining and Metallurgy, Freiberg, May 21-23, 1959" and "Dynamics and statics of the labor productivity in the system of operational indices" by M. Bratke. Reviewed by J. Kostecki. Przegl geolog 10 no.7:380 J1 '62.

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Przegl geolog 10 no.7:3 of cover J1 '62.



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10 years of activity of the Institute of Nonferrous Metals in  
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"Mining law" by Tadeusz Plodowski. Reviewed by Jan Kostecki.  
Przegl geol 10 no.8:437 Ag '62.

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"Wells" by O. Przewlocki, A. Tkaczenko, K. Czarnocki. Reviewed by  
J. Kostecki. Przegl geol 10 no.8:437 Ag '62.

KOSTECKI, J.

Ten years of activities of the Polish State Enterprise Geoprojekt.  
Przegl geol 10 no.8:3 of cover Ag '62.

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"Report on the 1st Meeting of Representatives of Countries belonging to the International Bureau for Mining Mechanics," Leipzig, November 3-7, 1959. Reviewed by J. Kostecki. Przegl geol 10 no 8, 423 Ag '62.

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1. Zakład Złoz Surowcow Skalnych, Instytut Geologiczny, Warszawa

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by E.Piliszka, J.Pogorzelski. Reviewed by J.Kostecki. Przegl  
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New publications in the field of mining and metallurgy. Przegl  
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Deliveries of Polish-made cement for Western Ukraine  
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Stanislaw Mindak, 1886-1963; obituary. Przegl geol 11 no.3:161-162  
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45 years in the service of boring. Przegl geol 11 no.4:212 Ap '63.

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Warsaw, Przegląd Geologiczny, No 8, Aug 63, pp 400-01.

"Legal and Organizational Questions in the Operation  
of Government Mining Council".

Platon Januszewicz. Przegl geol 11 no.1:66 Ja '63.

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Current works of the Commission of Mineral Resources.  
Przegl geol 11 no.5:3 of cover. My '63.



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'63.

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Map of the building fossils of Poland, scale 1: 100 000.  
Kwartalnik geol 6 no.4:763-765 '62.

1. Zaklad Zloz Surowcow Skalnych, Instytut Geologiczny, Warszawa.

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Legal and organization problems; from the activities of the State  
Mining Council. Przegl geol 11 no.11:497-500 N '63.

KOPIŃSKI, Jan

Problems of the geology of raw materials as a subject of the  
First National Polish Congress of Opencast Mining in Breslau.  
Przegl geol 11 no. 3:381-384 Ag '62.

Activities of the State Mining Council; legislative and organ-  
izational problems. Ibid. 400-401

Geological investigations and industrial safety in mining.  
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